AUTODOC CLUB

How to change engine oil and filter on **BMW E36** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 3 Saloon (E36) 320i 2.0, BMW 3 Coupe (E36) 320i 2.0, BMW 3 Convertible (E36) 320i 2.0, BMW 3 Touring (E36) 320i 2.0, BMW 3 Touring (E36) 328i 2.8, BMW 3 Saloon (E36) 328i 2.8, BMW 3 Coupe (E36) 328i 2.8, BMW 3 Convertible (E36) 328i 2.8, BMW 5 Saloon (E39) 520i 2.0, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 528i 2.8, BMW 3 Convertible (E36) 323i 2.5, BMW 3 Coupe (E36) 323i 2.5, BMW 3 Touring (E36) 323i 2.5, BMW 7 (E38) 728i / iL 2.8, (+ 56)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – BMW E36. TOOLS YOU MIGHT NEED:



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Drive socket # 19
- Drive socket # 36
- Ratchet wrench
- Tap wrench
- Flat screwdriver
- Fluid container
- Funnel
- Fender cover

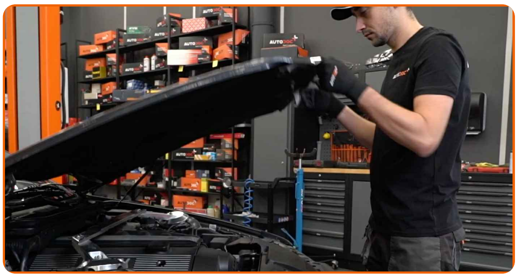
BUY TOOLS

Replacement: engine oil and filter – BMW E36. Tip from AUTODOC:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – BMW E36 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Unscrew the oil filler plug.



4 Clean the oil filter housing cap. Use all-purpose cleaning spray.



5 Unscrew the filter housing cap together with the old filter element. Use a drive socket #36. Use a ratchet wrench.



6 Prepare a container for the old oil filter.



7 Put the old oil filter in the container.



AUTODOC recommends:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

8 Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.

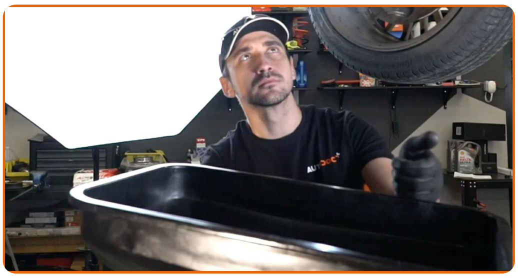
9 Lift the car using a jack or place it over an inspection pit.



Replacement: engine oil and filter – BMW E36. Tip:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

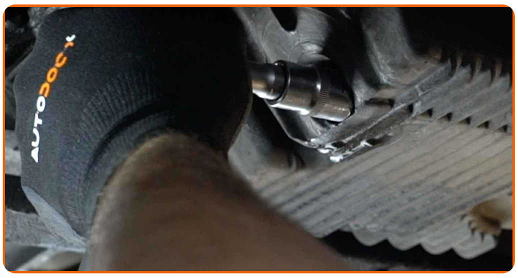
10 Put a waste oil container with at least 7 l capacity under the drainage hole.



11 Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.



12 Unscrew the drain plug. Use a drive socket #19. Use a tap wrench.



13 Drain the used oil.



Replacement: engine oil and filter – BMW E36. AUTODOC recommends:

- Caution! The oil may be hot.

14 Remove the oil filter cover O-ring.



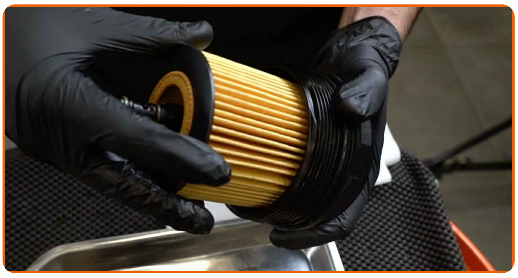
15 Detach the oil filter from the filter cover. Use a flat screwdriver.



16 Clean the oil filter housing cap. Use all-purpose cleaning spray.



17 Install the new oil filter to the mounting seat on the filter cover.

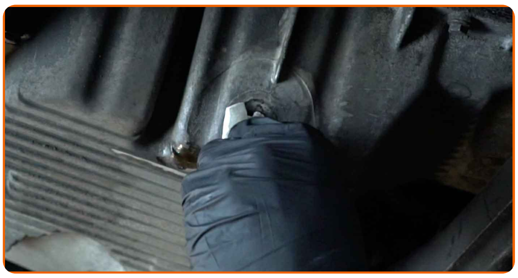


18 Install a new O-ring to its mounting seat on the filter cover.

Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.
- Wait until the oil has completely drained from the drainage hole.

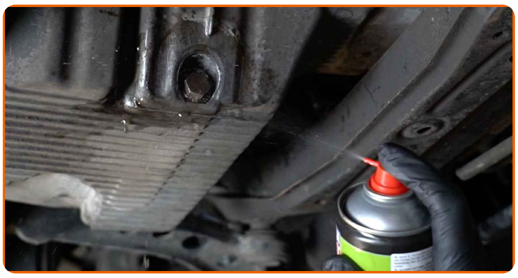
19 Clean the area of the oil pan drainage hole.



20 Screw in the new drainage plug and tighten it. Use a drive socket #19. Use a torque wrench. Tighten it to 25 Nm torque.



21 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



22 Lower the car.

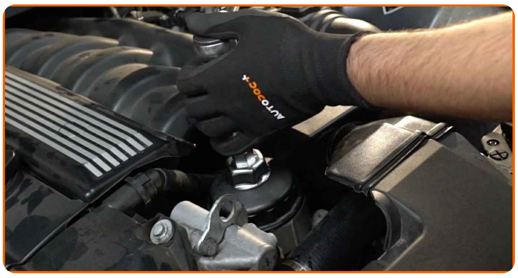


23 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



24 Remove the microfibre towel from the oil filter housing.

25 Install a new oil filter housing cover and tighten it. Use a drive socket #36. Use a torque wrench. Tighten it to 25 Nm torque.



26 Remove the oil filler cap.



27 Insert the funnel.



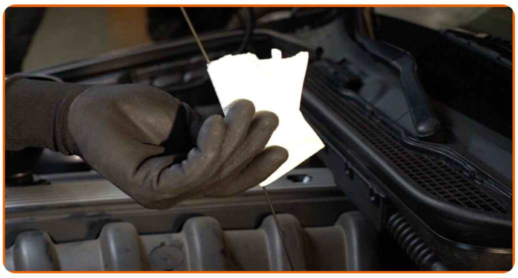
28 Pour oil into the engine through the filler. Required amount of oil: 6,5 l.



Replacement: engine oil and filter – BMW E36. AUTODOC experts recommend:

- Use the oil recommended by the manufacturer.

29 Check the oil level using the dipstick. Top up oil if necessary.



Please note!

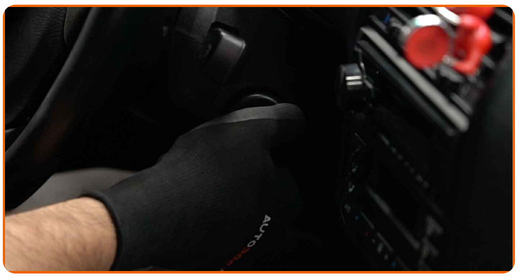
- The oil level should be between the Min and Max marks.

30 Install the oil filler cap.



31 Tighten the oil filler cap.

32 Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.



33 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



Make sure that the oil filler cap is properly tightened.

- The oil level should be between the Min and Max marks.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

34 Remove the fender protection cover.



35 Close the hood.



Replacement: engine oil and filter – BMW E36. Tip:

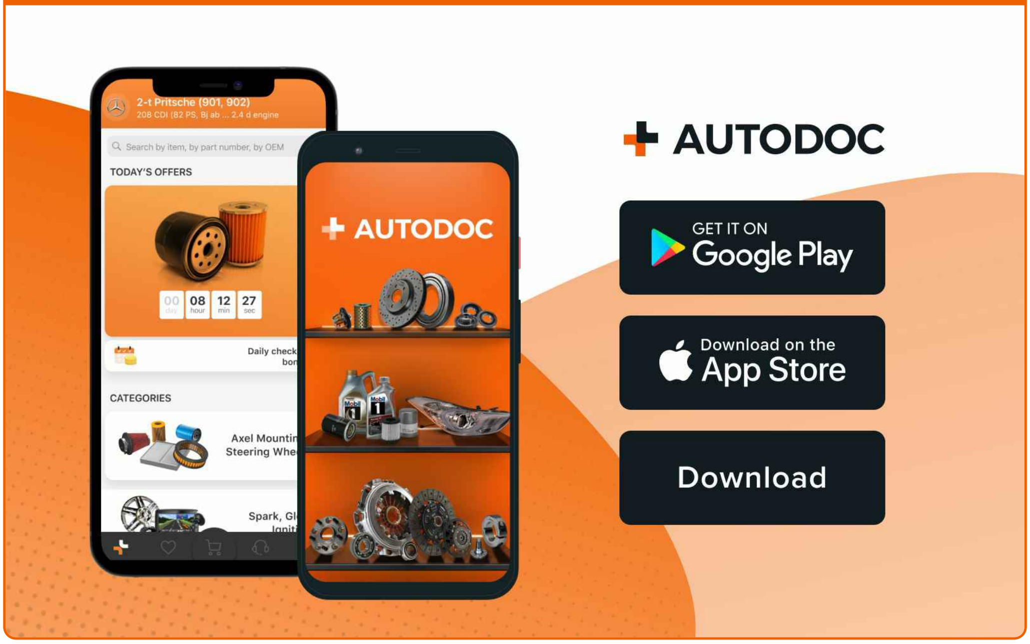
- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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